

Project Baseline Summary Report

Data Source: **EM CDB**

Operations/Field Office: **Idaho**

Site Summary Level: **Idaho National Engineering and Environmental Laboratory**

Project **ID-ER-110 / Decontamination and Decommissioning**

Report Number: **GEN-01b**

Print Date: **3/10/2000**

HQ ID: **0564**

General Project Information

Project Description Narratives

Purpose, Scope, and Technical Approach:

SUMMARY: Inactive radiologically contaminated facilities at the INEEL pose a long term risk to site workers and the environment resulting in substantial S&M cost. The D&D Program will eliminate these hazards (radiological, chemical, biological, and industrial). Since 1949, the INEEL has constructed and operated 53 test or experimental Reactors, and a spent nuclear fuel reprocessing, fuel storage, tank farm and calcining complex. There are a total of 215 contaminated surplus facilities and structures at the INEEL (known existing and/or planned future facilities/structures).

The Federal Driver for managing surplus contaminated facilities is 41 CFR 101-47, Property Management. The D&D process follows the guidance provided by DOE Order 430.1 LCAM and the U.S. DOE Office of Environmental Management Decommissioning Resource Manual.

PURPOSE: Inactive radiologically contaminated facilities at the INEEL pose a long term risk to site workers and the environment. Decontamination & Dismantlement (D&D) will eliminate these hazards (radiological, chemical, biological, and industrial).

The INEEL has been the lead laboratory in reactor development and testing, and high enriched spent nuclear fuel reprocessing, since 1949, and has constructed and operated 53 test or experimental reactors. Reactors at the Test Reactor Area (TRA) and reactors at Argonne National Laboratory-West (ANL-W) are still operational, while the remainder have been deactivated or decommissioned to varying degrees.

Along with these reactors are the numerous ancillary facilities and structures required for support services. The main areas at the INEEL are: Test Area North (TAN), Naval Reactor Facility (NRF), Test Reactor Area (TRA), Idaho Nuclear Technology and Engineering Center (INTEC), Central Facilities Area (CFA), Power Burst Facilities (PBF), Argonne National Laboratory-West (ANL-W), Radioactive Waste Management Complex (RWMC), and the Experimental Breeder Reactor area (EBR). The previous Mission at the INEEL for test and experimental reactor construction and operations, and nuclear fuel reprocessing ended in the mid-1980's. The main focus of the INEEL Inactive Sites Department and the D&D Program is the decontamination and dismantlement of these remaining reactors, fuel reprocessing facilities and fuel storage pools, and their associated contaminated surplus facilities and structures, and to return potentially occupiable sites to a releasable state for reuse by other INEEL programs or the public. NOTE: NRF and ANL-W are NOT under the jurisdiction of the INEEL D&D Program since these sites are funded from other DOE-HQ sources.

D&D includes the characterization, project planning, preparation of operational documentation, and decommissioning activities (decontamination, dismantlement, demolition, and waste disposal) that will result in the release of the site for future use (consistent with guidance provided in DOE Order 5400.5). This program also includes the decontamination and dismantlement of facilities and/or structures to further eliminate surveillance and maintenance costs and the potential risk of exposure to INEEL workers and/or release of radiological and hazardous constituents to the environment.

The INEEL D&D Program was established in 1977 and has completed 32 decontamination and dismantlement projects. The INEEL D&D Program: (a) considers RCRA/TSCA and interfaces with the INEEL CERCLA program; (b) process follows the guidance provided by DOE Order 430.1 LCAM and the U.S. DOE Office of Environmental Management Decommissioning Resource Manual; and (c) process is applied to individual facilities and/or structure or technically correct groupings of facilities and/or structures.

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Acceleration of decontamination and dismantlement for surplus contaminated facilities would greatly reduce surveillance and maintenance costs to ensure facilities/structures maintain their containment integrity and there is no release of radiological and/or hazardous constituents to the environment (projected surveillance and maintenance cost SAVINGS from 1997 to 2007 ==> \$7.5M).

The ONLY Federal driver for well maintained surplus contaminated facilities is 41 CFR 101-47, Property Management, that requires DOE-ID to provide adequate surveillance and maintenance for facility continuity and NOT "Abandon" the facility. The deactivation process typically performs facility operational systems shut-down, safe-store work tasks to assure systems are de-energized, isolated, and drained of materials, and removes stored RCRA materials as applicable. There is the potential for RCRA fines related to the improper storage of RCRA wastes within "Unpermitted" facilities.

DEFINITION OF SCOPE: Accomplish total decontamination, dismantlement, and removal of facilities, with specific entombment applications to specified surplus contaminated facilities. The contaminated surplus facilities and structures will be transferred into the EM40 D&D Program after they have been Deactivated by EM60 and transferred by a Memorandum of Agreement (MOA) at DOE-HQ [EM72 to EM44].

Deactivation and D&D programs work closely to integrate their work efforts to minimize overall life cycle costs. The contaminated surplus facilities and structures transfer process is an ongoing operation that will continue throughout the life of the INEEL D&D Program; therefore, the number of active facilities will vary. All facilities awaiting D&D require surveillance and maintenance funding to maintain containment and alleviate the industrial hazards associated with degrading facilities/structures. A D&D project will be established for single or multiple facilities and will require the following actions:

Characterization/Assessment includes:

*Pre-Characterization-- historical research, sampling & analysis plan, building survey plan, sampling and surveys (radiological and hazardous materials), characterization and decision analysis report.

*Waste Characterization--sampling & analysis plan, sampling and surveys (radiological and hazardous materials), and preparation of waste transportation/disposal forms.

*Post-Characterization--sampling & analysis plan, sampling and surveys (radiological and hazardous materials), and preparation of a post characterization report.

D&D/Cleanup includes:

*Documentation--environmental permitting - National Environmental Policy Act (NEPA)- [EC, CX, EA, EIS], State Historic Preservation Office (SHPO), hazard classification, safety analysis report, health & safety plan, D&D plan, generator treatment plan, transportation plan, waste documentation, work permits (safe work permits, integrated planning sheets, radiological work permits, burn permits, confined space permits, excavation permits).

*Physical Work Tasks--removal of clean equipment, removal of loose contamination, removal of contaminated equipment, asbestos abatement, removal of fixed contamination, removal of hazardous waste and/or mixed waste, facility/structure dismantlement, site cleanup & restoration.

There are a total of 215 contaminated surplus facilities and structures at the INEEL (known existing and/or planned future facilities/structures).

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INEEL active D&D projects are: ARA-I, -II, -III, LOFT-MTA, CPP-631/709/734, TRA-641/654, TRA-660, TRA-655/704/705/706/755, CFA-691/657/716, TAN-620/656, and WMF-612.

TECHNICAL APPROACH:

Specific technical approaches for each D&D project will be outlined in specific D&D plans as the project completes the detailed planning and engineering phase of the work.

Technical Application: To include the latest proven technology in the accomplishment of decontamination and dismantlement work tasks . . . mechanical assistance and/or remote applications are preferred to reduce exposure and risk to the worker.

Current or planned D&D activities are NOT dependent upon EM-50 science or technology development initiatives. However, development of these sciences or technologies could potentially result in schedule and/or cost savings.

Technical Integration: To include an interfacing and systems engineering approach with the "Co-Located" facilities/structures that are within Waste Area Group (WAG) Operational Unit (OU) . . . assures overall WAG OU criteria are met and that RCRA/TSCA/CERCLA have all been considered and integrated. This would include the close coordination between INEEL, Remediation Program, and Waste Management . . . specifically coordination of future INEEL Waste Management needs related to Industrial Waste. Low Level Waste (LLW), Hazardous Waste (RCRA), Mixed Low Level Waste (MLLW), and High Level Waste (HLW) and required Treatment Storage and Disposal Facilities (TSDF) development on-Site or off-Site. The Site Treatment Plan currently addresses these "known" waste streams and will be updated as "new" waste streams are identified by future facility characterization efforts as part of the INEEL D&D Program.

Seeded data in the waste module was not provided by the PBS Manager. The data source is AVS, but validation is not possible because the data is entered by waste stream, not PBS.

Project Status in FY 2006:

*Complete D&D of TAN TSF Ancillaries-- LOFT-MTA, TAN-616 (Liquid Waste Evaporator), TAN-620/656 (IET Complex), -608 (Water Filtration), -609 (Equip. Maint.), -615 (Assembly & Manufacturing Bldg.), -623 (Sewage Treatment), -633 (Hot Cell Annex), -647 (Containment Storage Bldg.), -648 (PRP Containment Bldg.), TAN-666 (Liquid Waste Storage Facility), -711 (Sanitary Treatment Plant), -725 (Exhaust Stack), -726 (Liquid Waste Storage Tank Bldg.), -734 (Hot Shop exhaust).

*Complete D&D of TAN/CTF Ancillaries-- TAN-650 (LOFT Reactor).

*Complete D&D of Other Ancillaries-- ARA-I, -II, -III, BORAX-V, CFA-691/657/716.

*Complete D&D of TRA Ancillaries-- TRA-751/645 (ETR Cooling Tower Basin/Secondary Coolant Pumphouse), TRA-660 (ARMF), TRA-611 (Plug Storage Bldg.), TRA-612 (Basin Sump Pumphouse), -641 (Gamma Bldg.), -643 (Compressor Bldg.), -644 (Heat Exchanger Bldg.), -647 (ETR Office Bldg.), -648 (ETR Electrical Bldg.), -654 (Critical Facility), -655 (ETR Air Intake Bldg.), -657 (North Plug Storage), -663 (ETR Diesel Superior Bldg.), TRA-704, -705, -706, -712, -752, -753, -755, -760

*Complete D&D of PBF Ancillaries-- PBF-612 (SPERT II Reactor), PBF-710, -725, -751, -752, -760, -7?? / PBF-613 (SPERT IV Reactor), PBF-713, -7716, -727, -757 / PBF-620 (PBF Reactor), PBF-604, -606, -621, -624, -627, -629, -704, -719, -720, -722, -728, -730, -732, -734, -749.

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Post-2006 Project Scope:

All facilities awaiting D&D require surveillance and maintenance funding to maintain containment and alleviate the industrial hazards associated with degrading facilities/structures.

Characterization/Assessment includes:

*Pre-Characterization-- historical research, sampling & analysis plan, building survey plan, sampling and surveys (radiological and hazardous materials), characterization and decision analysis report

*Waste Characterization--sampling & analysis plan, sampling and surveys (radiological and hazardous materials), and preparation of waste transportation/disposal forms

*Post-Characterization--sampling & analysis plan, sampling and surveys (radiological and hazardous materials), and preparation of a post characterization report

D&D/Cleanup includes:

*Documentation--environmental permitting - National Environmental Policy Act (NEPA)- [EC, CX, EA, EIS], State Historic Preservation Office (SHPO), hazard classification, safety analysis report, health & safety plan, D&D plan, generator treatment plan, transportation plan, waste documentation, work permits (safe work permits, integrated planning sheets, radiological work permits, burn permits, confined space permits, excavation permits)

*Physical Work Tasks--removal of clean equipment, removal of loose contamination, removal of contaminated equipment, asbestos abatement, removal of fixed contamination, removal of hazardous waste and/or mixed waste, facility/structure dismantlement, site cleanup & restoration

Of the 215 contaminated surplus INEEL facilities/structures identified for decontamination and dismantlement, 32 projects have been completed. The decontamination and dismantlement of an additional 66 facilities/structures is planned for completion through 2006.

Project End State

Facilities decontaminated and dismantled, areas ready for release for reuse by other programs at the INEEL, and meeting specific release requirements of DOE Order 5400.5 and those agreed to in the INEEL Final Land Use Plan.

Utilizing RESRAD ==> 100 mR effective dose equivalent in a year

*Complete decontamination and dismantlement operations of PBF 2018.

*Complete decontamination and dismantlement operations of TAN 2028.

*Complete decontamination and dismantlement operations of the CPP Tank Farm 2023, and all other CPP facilities/structures 2044.

*Complete decontamination and dismantlement operations of TRA 2044.

Cost Baseline Comments:

The INEEL Inactive Sites Department utilizes detailed activity based cost estimates for inclusion into ER baseline documents (BCPs, CAPs, WPs, etc.) when a project is in the active planning and engineering phase prior to start of physical work. These detailed costs estimates are broken down into

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project specific quantities (i.e. cubic yards of concrete foundation to be demolished, square feet of concrete floor to be decontaminated, etc.)

Outyear D&D Cost Estimates (96 Baseline Environmental Management Report . . . cost estimates for 1999 and beyond) are based upon the Environmental Management Integration Program (EMIP) Parametric Model developed in 1995 and further refined in 1996.

This Parametric Model does NOT include any waste disposal costs [ONLY includes handling, packaging, & transportation to an On-Site Treatment Storage Disposal Facility (TSDF)]. Based upon currently available historical data related to D&D operations world-wide, waste disposal costs range from 35% to 40% of total project costs ... Utilizing these numbers as a basis for calculation, the INEEL total D&D costs would increase from \$384.9M to \$519.3M.

The Parametric Model is based upon recent INEEL D&D Program actual costs (1993-1995) and utilizes MEANS database for industrial applications of demolition work tasks and associated productivities adjusted to meet INEEL and radiological contamination (RAD) inefficiencies. The Parametric Model does NOT consider the D&D Program at the INEEL to be under CERCLA;

The Baseline costs represented here do not include contingency for authorized work packages, but do contain contingency for planning packages. This contingency is removed upon development of detailed work packages. Escalation is included from FY-00 and out. The INEEL Remediation Program has, since 1991, promoted use of the bottoms up/activity based costing (ABC) approach in the development of planning estimates in its assessment and remedial design and remedial action projects. All INEEL ER cost estimates have been developed using sound technical and planning principles, and are accompanied by basis of estimate documentation intended to demonstrate the rationale and specifics behind the estimates. Bottoms up estimating, or ABC, wherein the work scope is portrayed down to the task level, is both desired and encouraged, but not always practical.

The basis of estimates include a well defined statement of work, performance measures, products required for completion, products delivered, key support activities, and known milestones, etc., for every level of the program work scope. For work scope with definable milestones and deliverables, the cost estimates are very detailed and more precise. For more subjective work scope, where it is difficult to identify a specific end-product or deliverable, detail is provided to the lowest level possible. In most cases, the clarity of the available scope and associated planning assumptions is a key consideration in determining the specific technique used to develop a particular cost estimate.

Safety & Health Hazards:

The primary hazards associated with the D&D Program include low level radiological constituents, organic contaminants, petroleum products, inorganic compounds, and sanitary waste (ensure contaminants are project specific). During D&D Operations there will also be a number of industrial safety and industrial hygiene related hazards to address such as slips, trips, and falls; lifting; working on elevated structures; moving equipment; inhalation of dusts; temperature extremes; and other industrial hazards associated with the demolition/dismantlement of a facilities/structures. etc.

Hazard documentation developed includes, but is not limited to, project specific health and safety plans, detailed operating procedures, standard operating procedures, job safety analyses, job hazard analyses, etc. These documents will be developed during the early stages of each project and will determine the methods, procedures, and equipment used during project implementation to reduce hazards to workers and the environment.

Safety & Health Work Performance:

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The resources necessary to accomplish the planned work safely and in compliance are identified through the Health and Safety Program requirements as well as the authorization basis discussed previously. Resources allocated at the site to ensure compliance with health and safety requirements, as well as safety on the job include: radcon, safety, industrial hygiene, occupational medical, fire, emergency management, safeguards and security, performance oversight, quality, the Voluntary Protection Program, etc. Safety and health resources are planned and allocated into the appropriate category by cost center through the work breakdown structure and they are loaded into each project for each fiscal year. Institutional support, such as medical facilities and personnel, security, fire protection, etc., are funded out of the financial systems indirect labor adder, and project-specific safety and health professional support (e.g., industrial safety engineer) is identified in specific control account plans where the support is required. The average cost per FTE, burdened, is approximately \$60/hour to \$65/hour for each of the safety professionals identified above. Presently there are no plans to conduct full DOE operational readiness reviews although all projects will undergo a complete evaluation of their readiness to proceed with field activities. Applicable projects will complete unreviewed safety question determinations. Personnel are trained in Stop Work Authority, emergency preparedness procedures, health and safety plans, work plans, integrated safety management, integrated work control, conduct of operations, and conduct of maintenance, etc. Safety, radcon, health, fire, environmental, and quality personnel conduct routine inspections to ensure personnel and the environment are protected. The frequency of these inspections is dependent on the status of each particular project but generally ranges between daily to every other week. During field work the same level of ESH&Q support is required throughout the project. At this time the level of support required of the safety professionals will be reduced significantly and will only be performed during maintenance and monitoring activities. There are currently no unfunded or under funded safety, health, environmental, or quality resource requirements associated with this PBS. Upon completion of remedial actions, and the initiation of institutional controls, the level of safety and health resources required will be reduced to a minimum.

Resource levels vary from fiscal year to fiscal year depending on the extent of sampling and/or remediation activities being performed.

PBS Comments:

The INEEL Inactive Sites Department has made many advances in the decontamination and dismantlement of surplus contaminated facilities within the last four years (1993-1997) in spite of funding reductions, and has maintained a coherent unit by performing work for others at the INEEL Auxiliary Reactor Area (ARA), CFA, Boiling Water Reactor Experiment (BORAX), TAN, and TRA.

ARAs	- D&D Accomplished/Completed ==>	Facilities = 15	Structures = 15
CFA/BORAX	- D&D Accomplished/Completed ==>	Facilities = 2	Structures = 2
TAN	- D&D Accomplished/Completed ==>	Facilities = 2	Structures = 4
TRA	- D&D Accomplished/Completed ==>	Facilities = 1	Structures = 1

The INEEL Inactive Sites Department also has been performing work with/for the INEEL Waste Area Groups (WAGs) and EM60 Facility Demolition Initiative (FDI) Program utilizing specialized equipment and experienced crews. Future funding reductions would push these facilities into the out-years thus increasing their risk of release, and increase the overall life cycle by increasing surveillance and maintenance costs.

Baseline Validation Narrative:

The INEEL Environmental Management Integration Team performed a compliance and cost estimating review of all activities associated with this PBS. This PBS reflects the comments and recommendations associated with the review. The Remediation Program has, since 1991, promoted use of

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the bottoms up/ABC approach, in the development of planning estimates for Assessment and Remedial Design and Remedial Action projects. All INEEL Remediation Program cost estimates have been developed using sound technical and planning principles and are accompanied by basis of estimate documentation intended to demonstrate the rationale and specifics behind the estimates. Bottoms Up estimating or Activity Based Costing, wherein the work scope is portrayed down to the task level, is both desired and encouraged.

The basis of estimates include a well defined statement of work, performance measures, products required for completion, products delivered, key support activities, and known milestones, etc., for every level of the program work scope. For work scope with definable milestones and deliverables, the cost estimates are very detailed and more precise. For more subjective work scope, where it is difficult to identify a specific end-product or deliverable, detail is provided to the lowest level possible. In most cases, the clarity of the available scope and associated planning assumptions is a key consideration in determining the specific technique used to develop a particular cost estimate.

General PBS Information

Project Validated?	Yes	Date Validated:	2/13/1996					
Has Headquarters reviewed and approved project?	No							
Date Project was Added:	12/1/1997							
Baseline Submission Date:								
FEDPLAN Project?	Yes							
Drivers:	CERCLA	RCRA	DNFSB	AEA	UMTRCA	State	DOE Orders	Other
	Y	Y	N	N	N	Y	Y	N

Project Identification Information

DOE Project Manager:	A. MIKKOLA
DOE Project Manager Phone Number:	208-526-0725
DOE Project Manager Fax Number:	208-526-0598
DOE Project Manager e-mail address:	mikkolaw@inel.gov
Is this a High Visibility Project (Y/N):	

Planning Section

Baseline Costs (in thousands of dollars)

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	1997-2006 Total	2007-2070 Total	1997-2070 Total	1997	Actual 1997	1998	Actual 1998	1999	2000	2001	2002	2003	2004	2005	2006	
PBS Baseline (current year dollars)	110,011	704,037	814,048	4,910	3,598	7,747	6,281	9,549	1,427	6,336	10,238	12,515	17,264	13,960	26,065	
PBS Baseline (constant 1999 dollars)	100,774	373,481	474,255	4,910	3,598	7,747	6,281	9,549	1,389	6,043	9,563	11,449	15,469	12,251	22,404	
PBS EM Baseline (current year dollars)	110,011	704,037	814,048	4,910	3,598	7,747	6,281	9,549	1,427	6,336	10,238	12,515	17,264	13,960	26,065	
PBS EM Baseline (constant 1999 dollars)	100,774	373,481	474,255	4,910	3,598	7,747	6,281	9,549	1,389	6,043	9,563	11,449	15,469	12,251	22,404	
	2007	2008	2009	2010	2011- 2015	2016- 2020	2021- 2025	2026- 2030	2031- 2035	2036- 2040	2041- 2045	2046- 2050	2051- 2055	2056- 2060	2061- 2065	2066- 2070
PBS Baseline (current year dollars)	12,363	9,042	2,668	2,555	16,298	74,592	106,060	93,820	143,760	157,313	85,566	0	0	0	0	0
PBS Baseline (constant 1999 dollars)	10,408	7,456	2,155	2,021	12,117	49,986	64,059	51,074	70,535	69,566	34,104	0	0	0	0	0
PBS EM Baseline (current year dollars)	12,363	9,042	2,668	2,555	16,298	74,592	106,060	93,820	143,760	157,313	85,566	0	0	0	0	0
PBS EM Baseline (constant 1999 dollars)	10,408	7,456	2,155	2,021	12,117	49,986	64,059	51,074	70,535	69,566	34,104	0	0	0	0	0

Baseline Escalation Rates

1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
0.00%	0.00%	0.00%	2.70%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%
2010	2011-2015	2016-2020	2021-2025	2026-2030	2031-2035	2036-2040	2041-2045	2046-2050	2051-2055	2056-2060	2061-2065	2066-2070

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2010	2011-2015	2016-2020	2021-2025	2026-2030	2031-2035	2036-2040	2041-2045	2046-2050	2051-2055	2056-2060	2061-2065	2066-2070
2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%

Project Reconciliation

Project Completion Date Changes:

Previously Projected End Date of Project: 9/30/2044

Current Projected End Date of Project: 9/30/2044

Explanation of Project Completion Date Difference (if applicable):

Project Cost Estimates (in thousands of dollars)

Previously Estimated Lifecycle Cost (1997 - 2070, 1998 Dollars):	466,093	Actual 1997 Cost:	3,598	Actual 1998 Cost:	6,281
Previously Estimated Lifecycle Cost of Project (1999 - 2070, 1998 Dollars):	456,214	Inflation Adjustment (2.7% to convert 1998 to 1999 dollars):			12,318
Previously Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars):	468,532				

Project Cost Changes

	Cost Adjustments	Reconciliation Narratives
Cost Change Due to Scope Deletions (-):		
Cost Reductions Due to Efficiencies (-):	6,908	End point planning for several facilities now include the concept of in-situ immobilization
Cost Associated with New Scope (+):		
Cost Growth Associated with Scope Previously Reported (+):		
Cost Reductions Due to Science & Technology Efficiencies (-):	23	
Subtotal:	461,601	
Additional Amount to Reconcile (+):	-3	
Current Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars):	461,598	

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Milestones

Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
ARA-II D&D Final Report Approved-Sent by DOE-ID to ARDC	3BCA016		9/30/1997		4/20/1999						
BORAX-V D&D Final Report Approved-Sent by DOE-ID to ARDC	3DCA019		10/27/1996			5/29/1997					
CFA 669 Hot Laundry D&D Final Report Sent by DOE-ID to ARDC	3ECA030		6/28/1995			2/10/1995					
CPP-601 D&D Final Report Approved-Sent by DOE-ID to ARDC	3TCA104		3/30/2007		3/30/2007						
CPP-603 D&D Final Report Approved-Sent by DOE-ID to ARDC	3UHX104		4/1/2008		4/1/2008						
CPP-640 D&D Final Report Approved-Sent by DOE-ID to ARDC	3RHA085		2/28/2003		2/28/2003						
CPP-740/SFE-20 D&D Final Report Approved-Sent by DOE-ID to ARDC	3QHA060		12/23/2002		12/23/2002						
Completed Assessment of Release Sites (2)	MRRSFA02				9/30/2002						
Completed Assessments of Release Sites (1)	MRRSFA03				9/3/2003						
Completed Assessments of Release Sites (1)	MRRSFA06				9/30/2006						
Completed Assessments of Release Sites (1)	MRRSFA7-10				9/30/2010						
Completed Assessments of Release Sites (11)	DDRSFA05				9/30/2005						
Completed Assessments of Release Sites (11)	DDRSFA15				9/30/2015						
Completed Assessments of Release Sites (18)	DDRSFA06				9/30/2006						
Completed Assessments of Release Sites (2)	DDRSFA01				9/30/2001						
Completed Assessments of Release Sites (2)	DDRSFA30				9/30/2030						
Completed Assessments of Release Sites (20)	DDRSFA25				9/30/2025						
Completed Assessments of Release Sites (24)	DDRSFA40				9/30/2040						

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Operations/Field Office: **Idaho**

Site Summary Level: **Idaho National Engineering and Environmental Laboratory**

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Milestones

Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
Completed Assessments of Release Sites (3)	DDRSFA98					9/30/1998					
Completed Assessments of Release Sites (3)	DDRSFA99				9/30/1999						
Completed Assessments of Release Sites (3)	MRRSFA00				9/30/2000						
Completed Assessments of Release Sites (4)	MRRSFA99				9/30/1999						
Completed Assessments of Release Sites (4)	DDRSFA00				9/30/2000						
Completed Assessments of Release Sites (4)	DDRSFA02				9/30/2002						
Completed Assessments of Release Sites (4)	MRRSFA04				9/30/2004						
Completed Assessments of Release Sites (4)	DDRSFA7-10				9/30/2010						
Completed Assessments of Release Sites (44)	DDRSFA20				9/30/2020						
Completed Assessments of Release Sites (5)	DDRSFA03				9/30/2003						
Completed Assessments of Release Sites (7)	DDRSFA04				9/30/2004						
Completed Assessments of Release Sites (8)	DDRSFA35				9/30/2035						
Completed Release Site (23)	DDRSFC45				9/30/2045						
Completed Release Site (5)	MRRSFC04				9/30/2004						
Completed Release Sites (1)	MRRSFC99				9/30/1999						
Completed Release Sites (1)	DDRSFC02				9/30/2002						
Completed Release Sites (1)	MRRSFC03				9/3/2003						
Completed Release Sites (1)	MRRSFC06				9/30/2006						
Completed Release Sites (1)	MRRSFC7-10				9/30/2010						
Completed Release Sites (1)	MRRSFC15				9/30/2015						
Completed Release Sites (10)	DDRSFC15				9/30/2015						
Completed Release Sites (10)	DDRSFC20				9/30/2020						

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Milestones

Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
Completed Release Sites (12)	DDRSFC05				9/30/2005						
Completed Release Sites (2)	MRRSFC00				9/30/2000						
Completed Release Sites (2)	DDRSFC06				9/30/2006						
Completed Release Sites (2)	DDRSFC30				9/30/2030						
Completed Release Sites (23)	DDRSFC35				9/30/2035						
Completed Release Sites (3)	DDRSFC01				9/30/2001						
Completed Release Sites (3)	MRRSFC02				9/30/2002						
Completed Release Sites (37)	DDRSFC25				9/30/2025						
Completed Release Sites (4)	DDRSFC7-10				9/30/2010						
Completed Release Sites (5)	DDRSFC00				9/30/2000						
Completed Release Sites (6)	DDRSFC98					9/30/1998					
Completed Release Sites (6)	MRRSFC01				9/30/2001						
Completed Release Sites (6)	DDRSFC40				9/30/2040						
Completed Release Sites (7)	DDRSFC99				9/30/1999						
Completed Release Sites (7)	DDRSFC03				9/30/2003						
Completed Release Sites (7)	DDRSFC04				9/30/2004						
ETR D&D Final Report Approved-Sent by DOE-ID to ARDC	3JCA049		9/29/2008		9/29/2008						
MTR D&D Final Report Approved-Sent by DOE-ID to ARDC	3ICA042		9/29/2006		9/29/2006						
TAN/TSF D&D Final Report Approved-Sent by DOE-ID to ARDC	3NCA034		7/14/2000		7/14/2000						
TTAF D&D Final Report Approved-Sent by DOE-ID to ARDC	3LCA011		9/30/2003		9/30/2003						

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Milestones

Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
Tank Farm D&D Final Report Approved-Sent by DOE-ID to ARDC	3SHX124		4/1/2009		4/1/2009						
WCF D&D Final Report Approved-Sent by DOE-ID to ARDC	30HX124		4/2/2008		4/2/2008						
Project Start			10/1/1996								
Project Complete			9/30/2044								

Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
ARA-II D&D Final Report Approved-Sent by DOE-ID to ARDC	3BCA016										
BORAX-V D&D Final Report Approved-Sent by DOE-ID to ARDC	3DCA019										
CFA 669 Hot Laundry D&D Final Report Sent by DOE-ID to ARDC	3ECA030										
CPP-601 D&D Final Report Approved-Sent by DOE-ID to ARDC	3TCA104										
CPP-603 D&D Final Report Approved-Sent by DOE-ID to ARDC	3UHX104										
CPP-640 D&D Final Report Approved-Sent by DOE-ID to ARDC	3RHA085										
CPP-740/SFE-20 D&D Final Report Approved-Sent by DOE-ID	3QHA060										

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Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
to ARDC											
Completed Assessment of Release Sites (2)	MRRSFA02									Y	
Completed Assessments of Release Sites (1)	MRRSFA03									Y	
Completed Assessments of Release Sites (1)	MRRSFA06									Y	
Completed Assessments of Release Sites (1)	MRRSFA7-10									Y	
Completed Assessments of Release Sites (11)	DDRSFA05									Y	
Completed Assessments of Release Sites (11)	DDRSFA15									Y	
Completed Assessments of Release Sites (18)	DDRSFA06									Y	
Completed Assessments of Release Sites (2)	DDRSFA01									Y	
Completed Assessments of Release Sites (2)	DDRSFA30									Y	
Completed Assessments of Release Sites (20)	DDRSFA25									Y	
Completed Assessments of Release Sites (24)	DDRSFA40									Y	
Completed Assessments of Release Sites (3)	DDRSFA98									Y	
Completed Assessments of Release Sites (3)	DDRSFA99									Y	
Completed Assessments of Release	MRRSFA00									Y	

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Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
Sites (3)											
Completed Assessments of Release Sites (4)	MRRSFA99									Y	
Completed Assessments of Release Sites (4)	DDRSFA00									Y	
Completed Assessments of Release Sites (4)	DDRSFA02									Y	
Completed Assessments of Release Sites (4)	MRRSFA04									Y	
Completed Assessments of Release Sites (4)	DDRSFA7-10									Y	
Completed Assessments of Release Sites (44)	DDRSFA20									Y	
Completed Assessments of Release Sites (5)	DDRSFA03									Y	
Completed Assessments of Release Sites (7)	DDRSFA04									Y	
Completed Assessments of Release Sites (8)	DDRSFA35									Y	
Completed Release Site (23)	DDRSFC45									Y	
Completed Release Site (5)	MRRSFC04									Y	
Completed Release Sites (1)	MRRSFC99									Y	
Completed Release Sites (1)	DDRSFC02									Y	
Completed Release Sites (1)	MRRSFC03									Y	
Completed Release Sites (1)	MRRSFC06									Y	
Completed Release Sites (1)	MRRSFC7-10									Y	

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Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
Completed Release Sites (1)	MRRSFC15									Y	
Completed Release Sites (10)	DDRSFC15									Y	
Completed Release Sites (10)	DDRSFC20									Y	
Completed Release Sites (12)	DDRSFC05									Y	
Completed Release Sites (2)	MRRSFC00									Y	
Completed Release Sites (2)	DDRSFC06									Y	
Completed Release Sites (2)	DDRSFC30									Y	
Completed Release Sites (23)	DDRSFC35									Y	
Completed Release Sites (3)	DDRSFC01									Y	
Completed Release Sites (3)	MRRSFC02									Y	
Completed Release Sites (37)	DDRSFC25									Y	
Completed Release Sites (4)	DDRSFC7-10									Y	
Completed Release Sites (5)	DDRSFC00									Y	
Completed Release Sites (6)	DDRSFC98									Y	
Completed Release Sites (6)	MRRSFC01									Y	
Completed Release Sites (6)	DDRSFC40									Y	
Completed Release Sites (7)	DDRSFC99									Y	
Completed Release Sites (7)	DDRSFC03									Y	
Completed Release Sites (7)	DDRSFC04									Y	
ETR D&D Final Report Approved-Sent by DOE-ID to ARDC	3JCA049										
MTR D&D Final Report Approved-Sent by DOE-ID to ARDC	3ICA042										

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Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description			
TAN/TSF D&D Final Report Approved-Sent by DOE-ID to ARDC	3NCA034													
TTAF D&D Final Report Approved-Sent by DOE-ID to ARDC	3LCA011													
Tank Farm D&D Final Report Approved-Sent by DOE-ID to ARDC	3SHX124													
WCF D&D Final Report Approved-Sent by DOE-ID to ARDC	30HX124													
Project Start				Y										
Project Complete					Y									

Performance Measure Metrics

Category/Subcategory	Units	1997-2006 Total	2007-2070 Total	1997-2070 Total	Actual Pre-1997	Planned 1997	Actual 1997	Planned 1998	Planned 1999	Planned 2000	Planned 2001	Planned 2002	Planned 2003	Planned 2004
Fac.														
Decom.- Assess.	NF	65.00	126.00	191.00	48.00		1.00	2.00	5.00	3.00	4.00	8.00	3.00	8.00
Fac.														
Decom.- Cleanup	NF	79.00	130.00	209.00	32.00	6.00	7.00	4.00	8.00	4.00	3.00	7.00	4.00	8.00
Tech.														
Deployed	Ntd	6.00	0.00	6.00						6.00				
Category/Subcategory	Units	Planned 2004	Planned 2005	Planned 2006	Planned 2007	Planned 2008	Planned 2009	Planned 2010	Planned 2011 - 2015	Planned 2016 - 2020	Planned 2021 - 2025	Planned 2026 - 2030	Planned 2031 - 2035	Planned 2036 - 2040

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Category/Subcategory	Units	Planned 2004	Planned 2005	Planned 2006	Planned 2007	Planned 2008	Planned 2009	Planned 2010	Planned 2011 - 2015	Planned 2016 - 2020	Planned 2021 - 2025	Planned 2026 - 2030	Planned 2031 - 2035
Fac.													
Decom.- Assess.	NF	8.00	10.00	22.00	8.00		1.00		15.00	16.00	52.00	5.00	7.00
Fac.													
Decom- Cleanup	NF	8.00	12.00	23.00	6.00	3.00	1.00	3.00	11.00	9.00	11.00	4.00	51.00
Tech.													
Deployed	Ntd												
Category/Subcategory	Units	Planned 2036 - 2040	Planned 2041 - 2045	Planned 2046 - 2050	Planned 2051 - 2055	Planned 2056 - 2060	Planned 2061 - 2035	Planned 2066 - 2070	Exceptions	Lifecycle Total			
Fac.													
Decom.- Assess.	NF	22.00							5.00	245.00			
Fac.													
Decom- Cleanup	NF	8.00	23.00						3.00	245.00			
Tech.													
Deployed	Ntd									6.00			

Facility Decommissioning

Site Code	RSF ID	Change Flag	Description	Class/Subclass	Hazard	Plan. Assess. Year	Fore. Assess. Year	Actual Assess. Date	Plan. Deac. Year	Fore. Deac. Year	Actual Deac. Date	Plan. Comp. Year	Fore. Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
INEL	0424		ARA-602 \ Office Building (602)	Buildings & Equipment\Other Buildings		1992		9/1/1992						6/30/1994	1990	N		Y
INEL	0425		ARA-605 \ Chlorination Building (605)	Buildings & Equipment\Other Buildings		1992		9/1/1992						8/30/1994	1990	N		Y
INEL	0426		ARA-614 \ Decon and laydown Building (614)	Buildings & Equipment\Other		1992		9/1/1992						5/6/1995	1990	N		Y

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Facility Decommissioning

Site Code	RSF ID	Change Flag	Description	Class/Subclass	Hazard	Plan. Assess. Year	Fore. Assess. Year	Actual Assess. Date	Plan. Deac. Year	Fore. Deac. Year	Actual Deac. Date	Plan. Comp. Year	Fore. Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
				Buildings														
INEL	0427		ARA-709 \ Water Tank (709)	Tanks\Above Ground Storage Tanks		1992		9/1/1992						12/30/1994	1990	N		Y
INEL	0428		ARA-601 \ Well House (ARA-601)	Buildings & Equipment\Other Buildings		1992		9/1/1992						9/30/1995	1990	N		Y
INEL	0429		ARA-604 \ Guard House (ARA-604)	Buildings & Equipment\Other Buildings		1995		9/1/1995				1997		9/30/1997	1990	N		Y
INEL	0430		ARA-606 \ Technical Support Building (ARA-606)	Buildings & Equipment\Other Buildings		1992		9/1/1992						7/31/1995	1990	N		Y
INEL	0431		ARA-607 \ Control Building (ARA-607)	Buildings & Equipment\Other Buildings		1985		2/1/1985						12/1/1995	1990	N		Y
INEL	0432		ARA-608 \ Reactor Building (ARA-608)	Buildings & Equipment\Other Buildings		1985		2/1/1985						12/1/1995	1990	N		Y
INEL	0433		ARA-609 \ Guard House (ARA-609)	Buildings & Equipment\Other Buildings		1985	1985	2/1/1985				1999	1999	5/1/1999	1990	N		Y
INEL	0434		ARA-610 \ Service Building (ARA-610)	Buildings & Equipment\Other Buildings		1985	1985	2/1/1985				1999	1999	5/1/1999	1990	N		Y
INEL	0435		ARA-611 \ Well Pump House (ARA-611)	Buildings & Equipment\Other Buildings		1985		2/1/1985						10/1/1994	1990	N		Y
INEL	0436		ARA-612 \ Pumphouse (ARA-612)	Buildings & Equipment\Other		1985		2/1/1985						2/1/1994	1990	N		Y

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Facility Decommissioning

Site Code	RSF ID	Change Flag	Description	Class/Subclass	Hazard	Plan. Assess. Year	Fore. Assess. Year	Actual Assess. Date	Plan. Deac. Year	Fore. Deac. Year	Actual Deac. Date	Plan. Comp. Year	Fore. Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
				Buildings														
INEL	0437		ARA-613 \ Administration Building (ARA-613)	Buildings & Equipment\Other Buildings		1992		9/1/1992						8/30/1995	1990	N		Y
INEL	0438		ARA-615 \ Power Extrapolation Building (ARA- 615)	Buildings & Equipment\Other Buildings		1992		9/1/1992						9/30/1995	1990	N		Y
INEL	0439		ARA-626 \ Hot Cell Building (ARA-626)	Buildings & Equipment\Other Buildings		1993	1993	6/1/1993				1999	1999	8/1/1999	1990	N		Y
INEL	0440		ARA-627 \ Shop & Maintenance Building (ARA-627)	Buildings & Equipment\Other Buildings		1993		6/1/1993						7/31/1996	1990	N		Y
INEL	0441		ARA-628 \ Guard House (ARA-628)	Buildings & Equipment\Other Buildings		1993	1993	6/1/1993				1999	1999	9/1/1999	1990	N		Y
INEL	0442		ARA-629 \ Pump House (ARA 629)	Buildings & Equipment\Other Buildings		1993		6/1/1993						6/30/1996	1990	N		Y
INEL	0443		ARA-630 \ Assembly/Lab Building (ARA-630)	Buildings & Equipment\Other Buildings		1993		10/1/1994						10/1/1994	1990	N		Y
INEL	0444		ARA-631 \ Hydraulic Test Facility (ARA-631)	Buildings & Equipment\Other Buildings		1993		6/1/1993						6/30/1996	1990	N		Y
INEL	0446		ARA-701 \ Substation (ARA-701)	Buildings & Equipment\Other Buildings		1995		9/1/1995						5/17/1996	1990	N		Y
INEL	0447		ARA-702 \ Water Tank (ARA-	Tanks\Above Ground		1992		9/1/1992						11/30/199	1990	N		Y

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Facility Decommissioning

Site Code	RSF ID	Change Flag	Description	Class/Subclass	Hazard	Plan. Assess. Year	Fore. Assess. Year	Actual Assess. Date	Plan. Deac. Year	Fore. Deac. Year	Actual Deac. Date	Plan. Comp. Year	Fore. Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
			702)	Storage Tanks										4				
INEL	0448		ARA-705 \ Fuel Oil Tank (ARA-705)	Tanks\Above Ground Storage Tanks		1992		9/1/1992						7/31/1994	1990	N		Y
INEL	0449		ARA-708 \ Wastewater Storage Tank (ARA-708)	Tanks\Above Ground Storage Tanks		1985		2/1/1985						9/1/1993	1990	N		Y
INEL	0450		ARA-710 \ Fuel Oil Tank (ARA-710)	Tanks\Above Ground Storage Tanks		1985		2/1/1985						9/1/1994	1990	N		Y
INEL	0451		ARA-711 \ Fuel Oil Pump Building (ARA-711)	Buildings & Equipment\Other Buildings		1985		2/1/1985						9/1/1994	1990	N		Y
INEL	0452		ARA-713 \ Substation (ARA-713)	Buildings & Equipment\Other Buildings		1985		2/1/1985						12/1/1995	1990	N		Y
INEL	0453		ARA-714 \ Process Stack (ARA-714)	Buildings & Equipment\Other Buildings		1985		2/1/1985						8/1/1993	1990	N		Y
INEL	0454		ARA-715 \ Ventilation Stack (ARA-715)	Buildings & Equipment\Other Buildings		1985		2/1/1985						8/1/1993	1990	N		Y
INEL	0455		ARA-726 \ Substation (ARA-726)	Buildings & Equipment\Other Buildings		1995	1995	3/30/1995				1998	1998	9/30/1998	1990	N		Y
INEL	0456		ARA-727 \ Water Tank (ARA-727)	Tanks\Above Ground Storage Tanks		1993		6/1/1993						8/15/1993	1990	N		Y
INEL	0457		ARA-728 \ Fuel storage tank (ARA-728)	Tanks\Above Ground Storage Tanks		1991		9/1/1991						9/1/1991	1990	N		Y
INEL	0458		ARA-729 \ Hot Waste Tank (ARA-729)	Tanks\Underground Storage Tanks		1995	1995	3/30/1995				1998	1998	9/30/1998	1990	N		Y

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Facility Decommissioning

Site Code	RSF ID	Change Flag	Description	Class/Subclass	Hazard	Plan. Assess. Year	Fore. Assess. Year	Actual Assess. Date	Plan. Deac. Year	Fore. Deac. Year	Actual Deac. Date	Plan. Comp. Year	Fore. Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
INEL	0459		ARA-732 \ Storage Shelter (ARA-732)	Buildings & Equipment\Other Buildings		1985		2/1/1985						10/1/1994	1990	N		Y
INEL	0460		ARA-735 \ High Level Waste Storage Tank (ARA-735)	Tanks\Above Ground Storage Tanks		1985		2/1/1985						12/1/1993	1990	N		Y
INEL	0461		ARA-736 \ RAD Liquid Waste Storage Tank (ARA-736)	Tanks\Above Ground Storage Tanks		1985		2/1/1985						1/1/1994	1990	N		Y
INEL	0462		ARA-737 \ Sewage Treatment Facility (ARA-737)	Buildings & Equipment\Other Buildings		1995	1995	3/30/1995				1998	1998	9/30/1998	1990	N		Y
INEL	0464		B17-702 \ ARVFS NaK Bunker	Buildings & Equipment\Other Buildings		1996						1997		10/10/1996	1990	N		Y
INEL	0466		CPP-603 \ Fuel Receipt and Storage Building (CPP-603)	Buildings & Equipment\Other Buildings		2036	2036					2039	2039		2003	N		Y
INEL	0467		CPP-631 \ RALA Off-Gas Vault (CPP-631)	Buildings & Equipment\Other Buildings		1994		12/31/1993				1997		9/25/1997	1990	N		Y
INEL	0470		CPP-709 \ Service Waste Monitoring Facility (CPP-709)	Buildings & Equipment\Other Buildings		1993	1993	12/31/1993				1999	1997	9/1/1999	1990	N		Y
INEL	0471		CPP-734 \ Service Waste Monitoring Facility (CPP-734)	Buildings & Equipment\Other Buildings		1993		12/31/1993				1997		9/25/1997	1990	N		Y
INEL	0475		MTA \ Mobile Test Assembly (MTA)	Buildings & Equipment\Equipment		1996	1996	9/30/1997				1998	1998	9/30/1998	1996	N		Y
INEL	0476		BOR-717 \ BORAX V Reactor Building (BOR-717)	Buildings & Equipment\Other		1996						1997		11/14/1996	1990	N		Y

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				Buildings														
INEL	0484		TRA-605 \ Process Water Building	Buildings & Equipment\Other Buildings		2023	2023					2031	2031		1990	N		Y
INEL	0489		TAN-616 \ Liquid Waste Treatment Facility	Buildings & Equipment\Other Buildings		2001	2001					2005	2005		1988	N		Y
INEL	0490		TAN-726 \ Hot Liquid Storage Vault (TAN-726)	Buildings & Equipment\Other Buildings		2007	2007					2007	2007		1995	N		Y
INEL	0491		TAN/TSF-11 \ IET Valve Pit (TAN-TSF-11) (transferred to RA)	Buildings & Equipment\Other Buildings		1994		9/30/1994						9/30/1994	1988	N		Y
INEL	0492		TAN/TSF-606 \ Calibration Well (TAN-TSF-606)	Buildings & Equipment\Other Buildings		1994		9/30/1994						9/30/1994	1988	N		Y
INEL	0493		TRA-603 \ Materials Test Reactor (MTR)	Buildings & Equipment\Other Buildings	Non-Nuclear Facility	2023	2023					2031	2031		1990	N		Y
INEL	0494		TRA-604 \ MTR "A" Wing Buildings	Buildings & Equipment\Other Buildings	Non-Nuclear Facility	2023	2023					2031	2031		1990	N		Y
INEL	0496		TRA-610 \ MTR Fan House (TRA-610)	Buildings & Equipment\Other Buildings	Non-Nuclear Facility	2023	2023					2031	2031		1990	N		Y
INEL	0497		TRA-611 \ Plug Storage (TRA-611)	Buildings & Equipment\Other Buildings		2023	2023					2031	2031		1999	N		Y
INEL	0498		TRA-612 \ Sump Pump House	Buildings &		2007	2007					2007	2007		2002	N		Y

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			(TRA-612)	Equipment\Other Buildings														
INEL	0501		TRA-630 \ Pump House (TRA-630)	Buildings & Equipment\Other Buildings		2023	2023					2031	2031		1990	N		Y
INEL	0502		TRA-635 \ Material Receiving Area and Laboratory	Buildings & Equipment\Other Buildings	Non-Nuclear Facility	2023	2023					2031	2031		1990	N		Y
INEL	0503		TRA-636 \ Retention Basin Inlet Sample House	Buildings & Equipment\Other Buildings	Non-Nuclear Facility	2023	2023					2031	2031		1990	N		Y
INEL	0504		TRA-641 \ Gamma Building (TRA-641)	Buildings & Equipment\Other Buildings	Non-Nuclear Facility	2000	2000					2001	2001		2023	N		Y
INEL	0505		TRA-642 \ ENGINEERING TEST REACTOR (ETR) BUILDING (TRA-642)	Buildings & Equipment\Other Buildings		2002	2002	7/1/1996				2010	2010		2004	N		Y
INEL	0506		TRA-643 \ Compressor Building (TRA-643)	Buildings & Equipment\Other Buildings		2007	2007					2007	2007		1997	N		Y
INEL	0507		TRA-644 \ ETR Heat Exchanger Building (TRA-644)	Buildings & Equipment\Other Buildings	Non-Nuclear Facility	2002	2002					2010	2010		1990	N		Y
INEL	0508		TRA-645 \ Secondary Coolant Pumphouse (TRA-645)	Buildings & Equipment\Other Buildings		1996		7/1/1996				1997		9/18/1997	1990	N		Y
INEL	0509		TRA-647 \ ETR Office Building (TRA-647)	Buildings & Equipment\Other Buildings		2007	2007					2008	2008		2004	N		Y

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INEL	0510		TRA-648 \ Diesel Building (TRA-648)	Buildings & Equipment\Other Buildings		2002	2002					2003	2003		1990	N		Y
INEL	0511		TRA-648 \ ETR Electrical Building (TRA-648)	Buildings & Equipment\Other Buildings	Non-Nuclear Facility	2004	1996	7/1/1996				2010	2010		1990	N		Y
INEL	0513		TRA-654 \ Critical Facility (TRA-654)	Buildings & Equipment\Other Buildings		2000	2000					2000	2000		1990	N		Y
INEL	0514		TRA-655 \ Air intake Building (TRA-655)	Buildings & Equipment\Other Buildings		2002	2002					2002	2002		1997	N		Y
INEL	0515		TRA-657 \ North Plug Storage Building (TRA-657)	Buildings & Equipment\Other Buildings		2023	2023					2031	2031		2023	N		Y
INEL	0516		TRA-661 \ Radiochemistry Labs	Buildings & Equipment\Other Buildings	Non-Nuclear Facility	2023	2023					2031	2031		1990	N		Y
INEL	0518		TRA-704 \ ETR Primary Filter Pit (TRA-704)	Buildings & Equipment\Other Buildings		2002	2002					2002	2002		1997	N		Y
INEL	0519		TRA-705 \ ETR Secondary Filter Pit (TRA-705)	Buildings & Equipment\Other Buildings		2002	2002					2002	2002		1999	N		Y
INEL	0520		TRA-706 \ Delay Tanks (TRA-706)	Tanks\Underground Storage Tanks		2001	2001					2001	2001		1990	N		Y
INEL	0522		TRA-710 \ MTR Exhaust Stack	Buildings & Equipment\Other Buildings	Non-Nuclear Facility	2023	2023					2031	2031		1990	N		Y

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INEL	0523		TRA-712 \ RETENTION BASIN (UNDERGROUND)(TRA-712)	Buildings & Equipment\Other Buildings		2016	2016					2017	2017		2002	N		Y
INEL	0525		TRA-752 \ ETR Transformer Yard	Buildings & Equipment\Other Buildings	Non-Nuclear Facility	2004	2004					2004	2004		2001	N		Y
INEL	0526		TRA-753 \ ETR Exhaust Stack (TRA-753)	Buildings & Equipment\Other Buildings		2004	2004					2004	2004		2004	N		Y
INEL	0527		TRA-755 \ ETR Filter Pit Building (TRA-755)	Buildings & Equipment\Other Buildings		2002	2002					2002	2002		2000	N		Y
INEL	0528		TAN-623 \ Sewage Treatment Plant Control Building	Buildings & Equipment\Other Buildings		2006	2006					2006	2006		1988	N		Y
INEL	0539		WMF-612 \ SWEPP C&S Waste Storage Bldg.	\		1999	1999	12/1/1998				1999	1999	2/26/1999	1997	N		N
INEL	0540		WMF-615 \ SWEPP Drum Venting Facility	\		2009	2009					2009	2009		2009	N		
INEL	0541		WMF-711 \ SWEPP Air Support Building	\		2002	2002					2003	2003		1998	N		
INEL	0542		WMF-??1 \ Type II Storage	\		2018	2018					2022	2022		2018	N		
INEL	0543		WMF-??2 \ TRU PACT	\		2019	2019					2023	2023		2019	N		
INEL	0544		WMF-??3 \ New SWEPP	\		2017	2017					2022	2022		2017	N		
INEL	0545		WMF-??4 \ Advanced Mixed Waste Treatment Facility	\		2017	2017					2022	2022		2017	N		
INEL	0546		WMF-636 \ TRU Retrieval Enclosure (TSA-RE)	\		2017	2017					2023	2023		2017	N		

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INEL	0562		PBF-609 \ SPERT III Reactor Building (WERF)	\		2013	2013					2015	2015		2013	N		
INEL	0563		PBF-622 \ WERF Metal Processing Bldg.	\		2016	2016					2018	2018		2016	N		
INEL	0564		PBF-623 \ WERF Waste Storage Bldg.	\		2016	2016					2018	2018		2016	N		
INEL	0565		PBF-635 \ WERF Waste Storage Bldg.	\		2013	2013					2015	2015		2013	N		
INEL	0566		PBF-705 \ Fuel Oil Tank (No. 2) \	\		2013	2013					2015	2015		2013	N		
INEL	0567		PBF-708 \ Substation	\		2016	2016					2018	2018		2016	N		
INEL	0568		PBF-709 \ Fuel Oil Tank	\		2013	2013					2015	2015		2013	N		
INEL	0569		PBF-711 \ Fuel Oil Tank (No. 2) \	\		2016	2016					2018	2018		2016	N		
INEL	0570		PBF-726 \ Septic Tank	\		2013	2013					2015	2015		2013	N		
INEL	0571		PBF-755 \ WERF Exhaust Stack-North	\		2013	2013					2015	2015		2013	N		
INEL	0572		PBF-756 \ WERF Exhaust Stack-South	\		2013	2013					2015	2015		2013	N		
INEL	0573		PBF-761 \ Spray Dryer Absorber Structural Support	\		2013	2013					2015	2015		2013	N		
INEL	0574		PBF-763 \ Septic Tank	\		2016	2016					2018	2018		2016	N		
INEL	0575		PBF-765 \ Exhaust Stack	\		2016	2016					2018	2018		2016	N		
INEL	0576		PBF-612 \ SPERT II Reactor Building (WEDF)	\		2005	2005					2005	2005		2003	N		
INEL	0577		PBF-710 \ Elecritical Substation \	\		2005	2005					2005	2005		2003	N		
INEL	0578		PBF-725 \ Septic Tank	\		2005	2005					2005	2005		2003	N		

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INEL	0579		PBF-751 \ RAD Liquid Storage Tank	\		2003	2003					2005	2005		2004	N		
INEL	0580		PBF-752 \ Fuel Oil Storage Tank	\		2005	2005					2005	2005		2003	N		
INEL	0581		PBF-760 \ Seepage Pit	\		2005	2005					2005	2005		2003	N		
INEL	0582		PBF-7?? \ Gasoline Storage Tank	\		2005	2005					2005	2005		2003	N		
INEL	0583		PBF-613 \ SPERT IV Reactor Building (MWSF)	\		2013	2013					2014	2014		2004	N		
INEL	0584		PBF-713 \ Elecritical Substation	\		2005	2005					2005	2005		2004	N		
INEL	0585		PBF-716 \ Fuel Oil Storage Tank (No. 2 / UST)	\		2005	2005					2005	2005		2004	N		
INEL	0586		PBF-727 \ Septic Tank	\		2005	2005					2005	2005		2004	N		
INEL	0587		PBF-757 \ Leaching Pit	\		2005	2005					2005	2005		2004	N		
INEL	0588		PBF-620 \ PBF Reactor Building	\		2001	2000					2006	2006		2009	N		
INEL	0589		PBF-604 \ Terminal Building	\		2006	2006					2006	2006		2009	N		
INEL	0590		PBF-606 \ Instrument Cell	\		2006	2006					2006	2006		2009	N		
INEL	0591		PBF-621 \ Emergency Generator Building	\		2004	2004					2004	2004		2009	N		
INEL	0592		PBF-624 \ Auxiliary Building	\		2004	2004					2004	2004		2009	N		
INEL	0593		PBF-625 \ Maintenance & Storage Building	\		2004	2004					2004	2004		2009	N		
INEL	0594		PBF-627 \ Gas Cylinder Storage Building	\		2004	2004					2004	2004		2009	N		

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INEL	0595		PBF-629 \ PBF Stack Gas Monitor Building	\		2006	2006					2006	2006		2009	N		
INEL	0596		PBF-634 \ Firewater Pumphouse	\		2007	2007					2007	2007		2009	N		
INEL	0597		PBF-704 \ Substation	\		2004	2004					2004	2004		2009	N		
INEL	0598		PBF-719 \ Substation	\		2006	2006					2006	2006		2009	N		
INEL	0599		PBF-720 \ Cooling Tower	\		2006	2006					2006	2006		2009	N		
INEL	0600		PBF-722 \ Fuel Oil Storage Tank (No. 2 / UST)	\		2006	2006					2006	2006		2009	N		
INEL	0601		PBF-728 \ Septic Tank	\		2006	2006					2006	2006		2009	N		
INEL	0602		PBF-730 \ Primary Water Storage Tank	\		2006	2006					2006	2006		2009	N		
INEL	0603		PBF-731 \ Corrosive Waste Disposal Sump	\		2007	2007					2007	2007		2009	N		
INEL	0604		PBF-732 \ Hot Waste Storage Tank	\		2006	2006					2006	2006		2009	N		
INEL	0605		PBF-734 \ Fire & Domestic Water Storage Tank	\		2006	2006					2006	2006		2009	N		
INEL	0606		PBF-749 \ Diesel Fuel Tank	\		2006	2006					2006	2006		2009	N		
INEL	0607		CPP-601 \ Process Building	\		2017	2017					2025	2025		2015	N		
INEL	0608		CPP-602 \ Laboratory & Office Building	\		2015	2015					2025	2025		2015	N		
INEL	0609		CPP-627 \ Remote Analytical Facility	\		2017	2017					2025	2025		2015	N		
INEL	0610		CPP-630 \ Safety & Spectrometry Building	\		2015	2015					2025	2025		2015	N		

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INEL	0612		CPP-642 \ Hot Waste Pumphouse Pit	\											1996	N		
INEL	0613		CPP-648 \ CPP-603 Basin Sludge Tank Control	\		2003	2003					2003	2003		2002	N		
INEL	0614		CPP-659 \ New Waste Calcining Facility (NWCF)	\		2034	2034					2044	2044		2034	N		
INEL	0615		CPP-666 \ FAST Facility	\		2020	2020					2026	2026		2011	N		
INEL	0616		CPP-604 \ Rare Gas Plant	\		2038	2038					2043	2043		2038	N		
INEL	0617		CPP-605 \ Blower Building	\		2038	2038					2043	2043		2038	N		
INEL	0618		CPP-635 \ Waste Storage Pipe Manifold Bldg	\		2014	2014					2020	2020		2014	N		
INEL	0619		CPP-636 \ Waste Storage Pipe Manifold Bldg	\		2014	2014					2020	2020		2014	N		
INEL	0620		CPP-637 \ Process Improvement Facility	\		2022	2022					2027	2027		2015	N		
INEL	0621		CPP-638 \ Waste Station	\		2021	2021					2022	2022		2014	N		
INEL	0622		CPP-639 \ CPP-663 Blower Bldg	\		2038	2038					2043	2043		2038	N		
INEL	0623		CPP-641 \ Waste Holdup Tank Pumphouse	\		2014	2014					2015	2015		2014	N		
INEL	0624		CPP-646 \ Instrument Building (2nd Bin Set)	\		2038	2038					2043	2043		2038	N		
INEL	0625		CPP-649 \ Atmospheric Protection Building	\		2038	2038					2043	2043		2038	N		
INEL	0626		CPP-684 \ Remote Analytical Laboratory	\		2038	2038					2043	2043		2038	N		

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INEL	0627		CPP-1608 \ Contaminated Equipment Repair	\		2035	2035					2038	2038		2035	N		
INEL	0628		CPP-1646 \ Anti-C/Safety Handling Building	\		2035	2035					2038	2038		2035	N		
INEL	0629		CPP-708 \ Stack (Main ICPP)	\		2038	2038					2043	2043		2038	N		
INEL	0630		CPP-729 \ Vault for 1st Set Bins	\		2038	2038					2043	2043		2038	N		
INEL	0631		CPP-741 \ WCF Solids Storage Vault	\		2038	2038					2043	2043		2038	N		
INEL	0632		CPP-742 \ Vault for 2nd Set Bins	\		2038	2038					2043	2043		2038	N		
INEL	0633		CPP-744 \ Vault for 2nd set Equipment	\		2038	2038					2043	2043		2038	N		
INEL	0634		CPP-746 \ Vault for 3rd Set Bins	\		2038	2038					2043	2043		2038	N		
INEL	0635		CPP-747 \ Vault for 3rd set Equipment	\		2038	2038					2043	2043		2038	N		
INEL	0636		CPP-756 \ PreFilter Vault	\		2038	2038					2043	2043		2038	N		
INEL	0637		CPP-760 \ Vault for 4th Set Bins	\		2038	2038					2043	2043		2038	N		
INEL	0638		CPP-761 \ Vault for 4th Set Equipment	\		2038	2038					2043	2043		2038	N		
INEL	0639		CPP-764 \ SFE Hold Tank Vault	\		2033	2033					2037	2037		2033	N		
INEL	0640		CPP-765 \ Unassigned ???	\		2033	2033					2037	2037		2033	N		
INEL	0641		CPP-791 \ Vault for 6th Set Bins	\		2038	2038					2043	2043		2038	N		
INEL	0642		CPP-795 \ Unassigned ???	\		2033	2033					2037	2037		2033	N		

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INEL	0643		CPP ??1 \ WIF	\		2038	2038					2043	2043		2038	N		
INEL	0644		CPP ??2 \ TMI-2 Storage	\		2033	2033					2037	2037		2033	N		
INEL	0645		CPP ??3 \ New Tank Farm (Vault)	\		2038	2038					2043	2043		2038	N		
INEL	0646		CPP ??4 \ New Tank Farm	\		2038	2038					2043	2043		2038	N		
INEL	0647		CPP ??5 \ Multi-Purpose-Canister (MPC) Storage	\		2038	2038					2043	2043		2038	N		
INEL	0648		CPP-628 \ Tank Farm Control House	\		2023	2023					2031	2031		2015	N		
INEL	0649		CPP-713 \ Tank Enclosure	\		2023	2023					2031	2031		2015	N		
INEL	0650		WM-187 \ Waste Tank (w/CPP-713 [] Tank Farm)	\		2023	2023					2031	2031		2015	N		
INEL	0651		WM-188 \ Waste Tank (w/CPP-713 [] Tank Farm)	\		2023	2023					2031	2031		2015	N		
INEL	0652		WM-189 \ Waste Tank (w/CPP-713 [] Tank Farm)	\		2023	2023					2031	2033		2015	N		
INEL	0653		WM-190 \ Waste Tank (w/CPP-713 [] Tank Farm)	\		2023	2023					2031	2031		2015	N		
INEL	0654		CPP-721 \ Condenser Pit for WM-182	\		2023	2023					2031	2031		2015	N		
INEL	0655		CPP-722 \ Condenser Pit for WM-183	\		2023	2023					2031	2031		2015	N		
INEL	0656		CPP-780 \ Vault for Waste Tank (WM-180)	\		2023	2023					2031	2031		2015	N		
INEL	0657		WM-180 \ Waste Tank (Tank Farm)	\		2023	2023					2031	2031		2015	N		

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INEL	0658		CPP-781 \ Vault for Waste Tank (WM-181)	\		2023	2023					2031	2031		2015	N		
INEL	0659		WM-181 \ Waste Tank (Tank Farm)	\		2023	2023					2031	2031		2015	N		
INEL	0660		CPP-782 \ Vault for Waste Tank (WM-182)	\		2023	2023					2031	2031		2015	N		
INEL	0661		WM-182 \ Waste Tank (Tank Farm)	\		2023	2023					2031	2031		2015	N		
INEL	0662		CPP-783 \ Vault for Waste Tank (WM-183)	\		2023	2023					2031	2031		2015	N		
INEL	0663		WM-183 \ Waste Tank (Tank Farm)	\		2023	2023					2031	2031		2015	N		
INEL	0664		CPP-784 \ Vault for Waste Tank (WM-184)	\		2023	2023					2031	2031		2015	N		
INEL	0665		WM-184 \ Waste Tank (Tank Farm)	\		2023	2023					2031	2031		2015	N		
INEL	0666		CPP-785 \ Vault for Waste Tank (WM-185)	\		2023	2023					2031	2031		2015	N		
INEL	0667		WM-185 \ Waste Tank (Tank Farm)	\		2023	2023					2031	2031		2015	N		
INEL	0668		CPP-786 \ Vault for Waste Tank (WM-186)	\		2023	2023					2031	2031		2015	N		
INEL	0669		WM-186 \ Waste Tank (Tank Farm)	\		2023	2023					2031	2031		2015	N		
INEL	0670		DVB-WM-As \ A2, A5, A6, A7, & A8 (Assume 5'x5' each)	\		2023	2023					2031	2031		2015	N		
INEL	0671		DVB-WM-Bs \ B1-B11	\		2023	2023					2031	2031		2015	N		

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			(Assume 5'x5' each)															
INEL	0672		DVB-WM-Cs \ C1-C38 (Assume 5'x5' each)	\		2023	2023					2031	2031		2015	N		
INEL	0673		DVB-WM-Ds \ D1-D5 (Assume 5'x5' each)	\		2023	2023					2031	2031		2015	N		
INEL	0674		DVB-WM-Tanks \ WM-178 to WM-190 (Assume 10'x10' each)	\		2023	2023					2031	2031		2015	N		
INEL	0675		TAN-620 \ IET Control & Equipment Bldg.	\		1998	2001	9/30/1998				2000	2000		1997	N		
INEL	0676		TAN-656 \ Change Room	\		1999	1999	10/23/1998 8				2000	2000		1997	N		
INEL	0678		TAN-650 \ Containment & Service Bld. (LOFT)	\		2001	2001					2006	2006		2000	N		
INEL	0679		TAN-725 \ Exhaust Stack	\		2006	2006					2006	2006		1997	N		
INEL	0682		TAN-607 \ Manufacturing Assembly & Hot Shop/Cells	\		2028	2028					2038	2038		2006	N		
INEL	0683		TAN-608 \ Water Filtration Building	\		2006	2006					2006	2006		2005	N		
INEL	0685		TAN-615 \ Assmebly & Maintenance Facility	\		2006	2006					2006	2006		2006	N		
INEL	0688		TAN-633 \ Hot Cell Annex	\		2006	2006					2006	2006		2007	N		
INEL	0689		TAN-647 \ Containment Storage Building	\		2006	2006					2006	2006		1998	N		
INEL	0690		TAN-648 \ PREP	\		2006	2006					2006	2006		1998	N		
INEL	0691		TAN-649 \ Water Filtration Building	\		2006	2006					2006	2006		2007	N		

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INEL	0692		TAN-655 \ Liquid Waste Lift Station	\		2006	2006					2006	2006		2007	N		
INEL	0693		TAN-666 \ Rad Liquid Waste Storage Building	\		2006	2006					2007	2007		2007	N		
INEL	0696		TAN-711 \ TAN-TSF Sanitary Treatment Plant	\		2006	2006					2006	2006		2007	N		
INEL	0697		TAN-734 \ TAN-607 Hot Shop Exhaust	\		2003	2003					2003	2003		2007	N		
INEL	0703		TAN-679 \ Manufacturing & Assembly	\		2012	2012					2013	2013		2001	N		
INEL	0704		TAN-681 \ Waste Treatment Building	\		2007	2007					2008	2008		2002	N		
INEL	0707		TAN-692 \ SMC Liquid Waste Storage	\		2007	2007					2008	2008		2000	N		
INEL	0713		TRA-613A \ Sampling Station Radioactive Fluid	\		2023	2023					2031	2031		2023	N		
INEL	0714		TRA-613B \ Sampling Station Radioactive Fluid	\		2023	2023					2031	2031		2023	N		
INEL	0722		TRA-713B \ Hot Waste Storage Tank (underground)	\		2023	2023					2031	2031		2023	N		
INEL	0723		TRA-713C \ Hot Waste Storage Tank (underground)	\		2023	2023					2031	2031		2023	N		
INEL	0725		TRA-716 \ Warm Waste Transfer Sump	\		2023	2023					2031	2031		2023	N		
INEL	0726		TRA-730A \ Catch Tank #1 (underground / Hot Waste)	Tanks\Above Ground Storage Tanks		2023	2023					2031	2031		2023	N		Y
INEL	0727		TRA-730B \ Catch Tank #2	Tanks\Above Ground		2023	2023					2031	2031		2023	N		Y

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			(underground / Hot Waste)	Storage Tanks														
INEL	0728		TRA-730C \ Catch Tank #3 (underground / Hot Waste)	Tanks\Above Ground Storage Tanks		2023	2023					2031	2031		2023	N		Y
INEL	0729		TRA-730D \ Catch Tank #4 (underground / Hot Waste)	Tanks\Above Ground Storage Tanks		2023	2023					2031	2031		2023	N		Y
INEL	0730		TRA-760 \ ETR Warm Waste Station	\											2000	N		
INEL	0736		TRA-751 \ ETR Cooling Tower \ Basin	\		1996		9/1/1996				1996		10/1/1996	2004	N		
INEL	0737		TRA-660 \ Advanced Reactivity Meas. Facil. (ARMF)	\		1999	1999	1/22/1999				2000	2000		1998	N		
INEL	0738		TRA-621 \ Nuclear Material Insp. & Stor. Bldg (NMIS)	\		2030	2030					2034	2034		2030	N		
INEL	0739		TRA-632 \ Hot Cell Building (Addition 1956)	\		2030	2030					2034	2034		2030	N		
INEL	0740		TRA-634 \ ATR Storage Facility \	\		2030	2030					2034	2034		2030	N		
INEL	0744		TRA-761 \ Loading Facility (Hot Waste)	\		2025	2025					2029	2029		2025	N		
INEL	0745		TRA-664 \ Hot Storage Building \	\			1997						1997		2025	N		
INEL	0746		TRA-666A \ Tritium Research Facility	\		2025	2025					2029	2029		2025	N		
INEL	0758		TAN-609 \ Equipment Maintenance Shop	\		2002	2002					2002	2002			N		
INEL	0759		CFA-657 \ Septic Tank Pumphouse	\		1999	1999	10/1/1998				2002	1999			N		
INEL	0760		TRA-663 \ Superior Diesel Building	\		2004	2004					2004	2004			N		

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INEL	0761		TRA-713D \ Hot Waste Storage \ Tank (underground)			2023	2023					2031	2031			N		
INEL	0764		CFA-691 \ Sewage Plant	\		1998	1998	10/1/1997				1999	1999	6/1/1999		N		
INEL	0765		CFA-716 \ Sewage Plant Septic \ Tank	\		1999	1999	10/1/1998				2002	2002			N		
INEL	0766		ARA-622 \ Warehouse	\		1985	1985	2/1/1985				1999	1999	4/1/1999		N		
INEL	0767		CPP-640 \ Head-end Processing \ Plant	\		2017	2017					2025	2025			N		
INEL	0768		TRA-670 \ Advanced Test \ Reactor (ATR) Bldg.	\		2030	2030					2044	2044			N		
INEL	3199		CF Laundry Facility [CFA-617] \			2000						2001				N		N

Technology Needs

Site Need Code: ID-7.2.03

Site Need Name: Concrete Decontamination

Focus Area Work Package ID: DD-02

Focus Area Work Package: Fuel Storage Pool and Associated Facilities D&D

Focus Area: DDFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both): Both

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

Biodegradation of Concrete

Biodegradation of Concrete

Biodegradation of Concrete

Centrifugal Shot Blast System

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Technology Needs

Centrifugal Shot Blast System

Centrifugal Shot Blast System

Concrete Shaver

Concrete Shaver

Concrete Shaver

Remotely Operated Scabbling

Remotely Operated Scabbling

Remotely Operated Scabbling

Concrete Spaller

Concrete Spaller

Concrete Spaller

Robotic Vacuum - Deployed Wall Scabbler / Detector

Robotic Vacuum - Deployed Wall Scabbler / Detector

Robotic Vacuum - Deployed Wall Scabbler / Detector

Related CCP Milestones

Related Waste Streams

Agree?

Change?

02426: -

Y

N

00780: A3 - LLW-Liquid

Y

N

00776: A2 - HAZ-Soil

Y

N

00784: A4 - LLW-Soil/Rubble/Debris

Y

N

Site Need Code: ID-7.2.04

Site Need Name: Metal Decontamination

Focus Area Work Package ID: DD-08

Focus Area Work Package: Separation Process Facilities D&D

Focus Area: DDFA

Agree with Technology Link: Y

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Technology Needs

Benefits (Cost, Risk Reduction, Both): Cost

Technologies

Laser Surface Cleaning

Laser Surface Cleaning

Laser Surface Cleaning

Laser Decontamination and Recycle of Metals

Laser Decontamination and Recycle of Metals

Laser Decontamination and Recycle of Metals

Decontamination Using Liquid Nitrogen Carrier with Solid Carbon Dioxide Pellet

Decontamination Using Liquid Nitrogen Carrier with Solid Carbon Dioxide Pellet

Decontamination Using Liquid Nitrogen Carrier with Solid Carbon Dioxide Pellet

Steam Vacuum Cleaning

Steam Vacuum Cleaning

Steam Vacuum Cleaning

Related CCP Milestones

Related Waste Streams

02426: -

00780: A3 - LLW-Liquid

00776: A2 - HAZ-Soil

00784: A4 - LLW-Soil/Rubble/Debris

Range of Estimate

Agree?

Change?

Y

N

Y

N

Y

N

Y

N

Site Need Code: ID-7.2.05

Site Need Name: Waste Recycle

Focus Area Work Package ID: DD-05

Focus Area: DDFA

Focus Area Work Package: Material Recycle and Release

Agree with Technology Link: Y

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Technology Needs

Benefits (Cost, Risk Reduction, Both): Cost

Technologies

Stainless Steel Beneficial Reuse

Stainless Steel Beneficial Reuse

Stainless Steel Beneficial Reuse

Biodegradation of Concrete

Biodegradation of Concrete

Biodegradation of Concrete

SEG Recycle and Reuse of Radioactively Contaminated Scrap Metal

SEG Recycle and Reuse of Radioactively Contaminated Scrap Metal

SEG Recycle and Reuse of Radioactively Contaminated Scrap Metal

Related CCP Milestones

Related Waste Streams

Agree?

Change?

02426: -

Y

N

00780: A3 - LLW-Liquid

Y

N

00776: A2 - HAZ-Soil

Y

N

00784: A4 - LLW-Soil/Rubble/Debris

Y

N

00772: A1 - HAZ-Liquid

Y

N

Site Need Code: ID-7.2.06

Site Need Name: Remote Characterization

Focus Area Work Package ID: DD-08

Focus Area Work Package: Separation Process Facilities D&D

Focus Area: DDFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both): Both

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

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Technology Needs

Internal Duct Characterization System

Internal Duct Characterization System

Small Pipe Characterization System (SPCS)

Small Pipe Characterization System (SPCS)

Pipe Explorer (TM) System

Pipe Explorer (TM) System

Three Dimensional, Integrated Characterization and Archiving System (3D-ICAS)

Three Dimensional, Integrated Characterization and Archiving System (3D-ICAS)

Gamma Ray Imaging System

Gamma Ray Imaging System

Mobile Automated Characterization System

Mobile Automated Characterization System

Pipe Crawler Internal Piping Characterization System

Pipe Crawler Internal Piping Characterization System

Gamma Cam (TM) Radiation Imaging System

Gamma Cam (TM) Radiation Imaging System

Indoor Radiation Mapping Using Laser Assisted Ranging and Data System

Indoor Radiation Mapping Using Laser Assisted Ranging and Data System

Ground Based Laser Induced Fluorescence Imaging

Ground Based Laser Induced Fluorescence Imaging

In Situ Object Counting System

In Situ Object Counting System

Cogema 3-D Gamma Imaging

Cogema 3-D Gamma Imaging

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Technology Needs

Related CCP Milestones

Related Waste Streams

Agree?

Change?

02432: W2.2 - LLW-Soil

Y

N

02431: C3 - LLW-Soil

Y

N

02428: -

Y

N

02426: -

Y

N

00780: A3 - LLW-Liquid

Y

N

00776: A2 - HAZ-Soil

Y

N

00784: A4 - LLW-Soil/Rubble/Debris

Y

N

00772: A1 - HAZ-Liquid

Y

N

02430: C2 - LLW-Rubble/Debris

Y

N

Site Need Code: ID-7.2.07

Site Need Name: Remote Demolition

Focus Area Work Package ID: DD-02

Focus Area Work Package: Fuel Storage Pool and Associated Facilities D&D

Focus Area: DDFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both): Both

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

Laser Cutting and Size Reduction

Laser Cutting and Size Reduction

Dual Arm Work Platform Teleoperated Robotics System

Dual Arm Work Platform Teleoperated Robotics System

Mobile Robot Worksystem (ROSIE)

Mobile Robot Worksystem (ROSIE)

High Speed Clamshell Pipe Cutter

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Technology Needs

High Speed Clamshell Pipe Cutter

Self Contained Pipe Cutting Shear

Self Contained Pipe Cutting Shear

Remote Control Concrete Demolition System

Remote Control Concrete Demolition System

Mobile Work Platform

Mobile Work Platform

Track Mounted Shear/Crusher

Track Mounted Shear/Crusher

Related CCP Milestones

Related Waste Streams

Agree?

Change?

02432: W2.2 - LLW-Soil

Y

N

02431: C3 - LLW-Soil

Y

N

02428: -

Y

N

02426: -

Y

N

00780: A3 - LLW-Liquid

Y

N

00776: A2 - HAZ-Soil

Y

N

00784: A4 - LLW-Soil/Rubble/Debris

Y

N

00772: A1 - HAZ-Liquid

Y

N

02430: C2 - LLW-Rubble/Debris

Y

N

Site Need Code: ID-7.2.08

Site Need Name: Robotics for D & D

Focus Area Work Package ID: DD-02

Focus Area Work Package: Fuel Storage Pool and Associated Facilities D&D

Focus Area: DDFA

Agree with Technology Link: Y

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Technology Needs

Benefits (Cost, Risk Reduction, Both): Both

Technologies

Dual Arm Work Platform Teleoperated Robotics System

Dual Arm Work Platform Teleoperated Robotics System

Mobile Robot Worksystem (ROSIE)

Mobile Robot Worksystem (ROSIE)

Remote Control Concrete Demolition System

Remote Control Concrete Demolition System

Track Mounted Shear/Crusher

Track Mounted Shear/Crusher

Cost Savings (in thousands of dollars)

Range of Estimate

Related CCP Milestones

Related Waste Streams

Agree?

Change?

02432: W2.2 - LLW-Soil

Y

N

02431: C3 - LLW-Soil

Y

N

02428: -

Y

N

02426: -

Y

N

00780: A3 - LLW-Liquid

Y

N

00776: A2 - HAZ-Soil

Y

N

00784: A4 - LLW-Soil/Rubble/Debris

Y

N

00772: A1 - HAZ-Liquid

Y

N

02430: C2 - LLW-Rubble/Debris

Y

N

Site Need Code: ID-7.2.09

Site Need Name: Develop a Rapid Wood Radiological Contamination Monitor

Focus Area Work Package ID: DD-08

Focus Area Work Package: Separation Process Facilities D&D

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Technology Needs

Focus Area: DDFA

Agree with Technology Link: N

Benefits (Cost, Risk Reduction, Both): Cost

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

Related CCP Milestones

Related Waste Streams

Agree?

Change?

02426: -

Y

N

00780: A3 - LLW-Liquid

Y

N

00776: A2 - HAZ-Soil

Y

N

00784: A4 - LLW-Soil/Rubble/Debris

Y

N

Site Need Code: ID-7.2.10

Site Need Name: Water Treatment Technologies are Needed to Treat the Water in the Reactor Canal (TRA-660).

Focus Area Work Package ID: DD-02

Focus Area Work Package: Fuel Storage Pool and Associated Facilities D&D

Focus Area: DDFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both): Cost

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

Membrane-Supported Particle-Bound Ligands for Cesium Removal

Membrane-Supported Particle-Bound Ligands for Cesium Removal

Specialized Separation Utilizing 3M Membrane Technology

Specialized Separation Utilizing 3M Membrane Technology

Related CCP Milestones

Related Waste Streams

Agree?

Change?

00780: A3 - LLW-Liquid

Y

N

00776: A2 - HAZ-Soil

Y

N

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Technology Needs

Related CCP Milestones

Related Waste Streams

Agree?

Change?

00784: A4 - LLW-Soil/Rubble/Debris

Y

N

Site Need Code: ID-7.2.11

Site Need Name: Asbestos Wrapped/Insulated Pipe Removal and Packaging.

Focus Area Work Package ID: DD-02

Focus Area Work Package: Fuel Storage Pool and Associated Facilities D&D

Focus Area: DDFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both):

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

Asbestos Pipe-Insulation Removal System

Asbestos Pipe-Insulation Removal System

Related CCP Milestones

Related Waste Streams

Agree?

Change?

02431: C3 - LLW-Soil

Y

N

02428: -

Y

N

00780: A3 - LLW-Liquid

Y

N

00776: A2 - HAZ-Soil

Y

N

00784: A4 - LLW-Soil/Rubble/Debris

Y

N

00772: A1 - HAZ-Liquid

Y

N

02430: C2 - LLW-Rubble/Debris

Y

N

Site Need Code: ID-7.2.12

Site Need Name: Cutting Equipment that is Capable of Cutting Large Items in Above Ground and Underground Structures as well as Underwater.

Focus Area Work Package ID: DD-08

Focus Area Work Package: Separation Process Facilities D&D

Focus Area: DDFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both): Both

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Technology Needs

<u>Technologies</u>	<u>Cost Savings (in thousands of dollars)</u>	<u>Range of Estimate</u>
Laser Cutting and Size Reduction		
Laser Cutting and Size Reduction		
High Speed Clamshell Pipe Cutter	2,000	High
High Speed Clamshell Pipe Cutter		
Oxy-Gasoline Torch	1,000	High
Oxy-Gasoline Torch		
Self Contained Pipe Cutting Shear		
Self Contained Pipe Cutting Shear		
Remote Control Concrete Demolition System		
Remote Control Concrete Demolition System		
Track Mounted Shear/Crusher		
Track Mounted Shear/Crusher		
Hand Held Shear		
Hand Held Shear		

<u>Related CCP Milestones</u>	<u>Related Waste Streams</u>	<u>Agree?</u>	<u>Change?</u>
	02431: C3 - LLW-Soil	Y	N
	02428: -	Y	N
	00780: A3 - LLW-Liquid	Y	N
	00776: A2 - HAZ-Soil	Y	N
	00784: A4 - LLW-Soil/Rubble/Debris	Y	N
	00772: A1 - HAZ-Liquid	Y	N
	02430: C2 - LLW-Rubble/Debris	Y	N

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Technology Needs

Site Need Code: ID-7.2.13

Site Need Name: Penetrations in Concrete Floor and Demolition of Concrete Roof.

Focus Area Work Package ID: DD-08

Focus Area Work Package: Separation Process Facilities D&D

Focus Area: DDFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both): Risk Reduction

Technologies

Remote Concrete Coring

Cost Savings (in thousands of dollars)

1,000

Range of Estimate

High

Remote Concrete Coring

Related CCP Milestones

Related Waste Streams

Agree?

Change?

02426: -

Y

N

00772: A1 - HAZ-Liquid

Y

N

Site Need Code: ID-7.2.14

Site Need Name: Technology for Decontaminating Radionuclide Contaminated Lead Shot, Brick (including lead plate), and Sheeting Allowing Free-Release.

Focus Area Work Package ID: DD-02

Focus Area Work Package: Fuel Storage Pool and Associated Facilities D&D

Focus Area: DDFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both): Cost

Technologies

Soda Blasting Decontamination Process

Cost Savings (in thousands of dollars)

Range of Estimate

Soda Blasting Decontamination Process

Soda Blasting Decontamination Process

Removal of Contaminants from Equipment and Debris, and Waste Minimization Using TECHXTRACT

Removal of Contaminants from Equipment and Debris, and Waste Minimization Using TECHXTRACT

Removal of Contaminants from Equipment and Debris, and Waste Minimization Using TECHXTRACT

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Technology Needs

Decontamination Using Liquid Nitrogen Carrier with Solid Carbon Dioxide Pellet

Decontamination Using Liquid Nitrogen Carrier with Solid Carbon Dioxide Pellet

Decontamination Using Liquid Nitrogen Carrier with Solid Carbon Dioxide Pellet

Steam Vacuum Cleaning

Steam Vacuum Cleaning

Steam Vacuum Cleaning

Soft Media Blast Cleaning

Soft Media Blast Cleaning

Soft Media Blast Cleaning

Advanced Recyclable Media System

Advanced Recyclable Media System

Advanced Recyclable Media System

Related CCP Milestones

Related Waste Streams

Agree?

Change?

02431: C3 - LLW-Soil

Y

N

02428: -

Y

N

02426: -

Y

N

00780: A3 - LLW-Liquid

Y

N

00776: A2 - HAZ-Soil

Y

N

00784: A4 - LLW-Soil/Rubble/Debris

Y

N

00772: A1 - HAZ-Liquid

Y

N

02430: C2 - LLW-Rubble/Debris

Y

N

Site Need Code: ID-7.2.15

Site Need Name: Field Screening of Paint/Painted Surfaces to Identify Lead Contamination in the Paint.

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Technology Needs

Focus Area Work Package ID: DD-02

Focus Area: DDFA

Benefits (Cost, Risk Reduction, Both): Both

Focus Area Work Package: Fuel Storage Pool and Associated Facilities D&D

Agree with Technology Link: Y

Technologies

Portable Sensor for Hazardous Waste

Portable Sensor for Hazardous Waste

Portable X-Ray Fluorescence Spectrometer

Portable X-Ray Fluorescence Spectrometer

Lead Paint Analyzer

Lead Paint Analyzer

Cost Savings (in thousands of dollars)

Range of Estimate

Related CCP Milestones

Related Waste Streams

Agree?

Change?

00780: A3 - LLW-Liquid

Y

N

00776: A2 - HAZ-Soil

Y

N

00784: A4 - LLW-Soil/Rubble/Debris

Y

N

00772: A1 - HAZ-Liquid

Y

N

02430: C2 - LLW-Rubble/Debris

Y

N

02431: C3 - LLW-Soil

Y

N

02428: -

Y

N

02426: -

Y

N

Site Need Code: ID-7.2.16

Site Need Name: Field Screening of Lead (shot, bricks, sheeting) for Radionuclide Contamination.

Focus Area Work Package ID: DD-02

Focus Area: DDFA

Focus Area Work Package: Fuel Storage Pool and Associated Facilities D&D

Agree with Technology Link: Y

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Technology Needs

Benefits (Cost, Risk Reduction, Both):

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

Related CCP Milestones

Related Waste Streams

Agree?

Change?

02431: C3 - LLW-Soil

Y

N

02428: -

Y

N

02426: -

Y

N

00780: A3 - LLW-Liquid

Y

N

00776: A2 - HAZ-Soil

Y

N

00784: A4 - LLW-Soil/Rubble/Debris

Y

N

00772: A1 - HAZ-Liquid

Y

N

02430: C2 - LLW-Rubble/Debris

Y

N

Site Need Code: ID-7.2.17

Site Need Name: Field Screening of Samples and Equipment Surfaces to Identify PCB Contamination

Focus Area Work Package ID: DD-02

Focus Area Work Package: Fuel Storage Pool and Associated Facilities D&D

Focus Area: DDFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both): Both

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

Rapid Surface Sampling and Archive Record (RSSAR) System

Rapid Surface Sampling and Archive Record (RSSAR) System

Portable Analyzer for Chlorinated Compounds

2,000

High

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Technology Needs

Portable Analyzer for Chlorinated Compounds

2,000

High

Related CCP Milestones

Related Waste Streams

Agree?

Change?

02432: W2.2 - LLW-Soil

Y

N

02431: C3 - LLW-Soil

Y

N

02426: -

Y

N

00780: A3 - LLW-Liquid

Y

N

00776: A2 - HAZ-Soil

Y

N

00784: A4 - LLW-Soil/Rubble/Debris

Y

N

00772: A1 - HAZ-Liquid

Y

N

02430: C2 - LLW-Rubble/Debris

Y

N

Site Need Code: ID-7.2.18

Site Need Name: General Use Remote Tools that can Handle Small Items such as Pliers or Hooking to Rigging.

Focus Area Work Package ID: DD-08

Focus Area Work Package: Separation Process Facilities D&D

Focus Area: DDFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both):

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

Related CCP Milestones

Related Waste Streams

Agree?

Change?

02431: C3 - LLW-Soil

Y

N

02428: -

Y

N

02426: -

Y

N

00780: A3 - LLW-Liquid

Y

N

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Technology Needs

Related CCP Milestones

Related Waste Streams

Agree?

Change?

00776: A2 - HAZ-Soil

Y

N

00784: A4 - LLW-Soil/Rubble/Debris

Y

N

00772: A1 - HAZ-Liquid

Y

N

02430: C2 - LLW-Rubble/Debris

Y

N

Site Need Code: ID-7.2.19

Site Need Name: Remote/Robotic Technologies for Access and Deployment of Characterization and Sampling Tools.

Focus Area Work Package ID: DD-08

Focus Area Work Package: Separation Process Facilities D&D

Focus Area: DDFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both): Both

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

Internal Duct Characterization System

Internal Duct Characterization System

Small Pipe Characterization System (SPCS)

Small Pipe Characterization System (SPCS)

Three Dimensional, Integrated Characterization and Archiving System (3D-ICAS)

Three Dimensional, Integrated Characterization and Archiving System (3D-ICAS)

CDI Remote Characterization System

CDI Remote Characterization System

Remote Concrete Coring

Remote Concrete Coring

Related CCP Milestones

Related Waste Streams

Agree?

Change?

02431: C3 - LLW-Soil

Y

N

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Technology Needs

Related CCP Milestones

Related Waste Streams

Agree?

Change?

02428: -

Y

N

02426: -

Y

N

00780: A3 - LLW-Liquid

Y

N

00776: A2 - HAZ-Soil

Y

N

00784: A4 - LLW-Soil/Rubble/Debris

Y

N

00772: A1 - HAZ-Liquid

Y

N

02430: C2 - LLW-Rubble/Debris

Y

N

Site Need Code: ID-7.2.20

Site Need Name: Underwater Radionuclide Characterization of Structures, Equipment, and Containment Pool Walls that Produces Quantitative Data.

Focus Area Work Package ID: DD-02

Focus Area Work Package: Fuel Storage Pool and Associated Facilities D&D

Focus Area: DDFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both): Both

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

Remote Underwater Characterization System (RUCS)

Remote Underwater Characterization System (RUCS)

Related CCP Milestones

Related Waste Streams

Agree?

Change?

02431: C3 - LLW-Soil

Y

N

02428: -

Y

N

02426: -

Y

N

00780: A3 - LLW-Liquid

Y

N

00776: A2 - HAZ-Soil

Y

N

00784: A4 - LLW-Soil/Rubble/Debris

Y

N

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Technology Needs

Related CCP Milestones

Related Waste Streams

Agree?

Change?

00772: A1 - HAZ-Liquid

Y

N

02430: C2 - LLW-Rubble/Debris

Y

N

Site Need Code: ID-7.2.21

Site Need Name: Removal of Two Reactors as Single Units.

Focus Area Work Package ID: DD-08

Focus Area Work Package: Separation Process Facilities D&D

Focus Area: DDFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both): Cost

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

Related CCP Milestones

Related Waste Streams

Agree?

Change?

02426: -

Y

N

00772: A1 - HAZ-Liquid

Y

N

Site Need Code: ID-S.2.04

Site Need Name: Physics and Chemistry of Plasma Processing

Focus Area Work Package ID: MW-06

Focus Area Work Package: Monitoring and Removing Hazardous and Radioactive Contaminants from Off Gas Streams

Focus Area: MWFA

Agree with Technology Link: N

Benefits (Cost, Risk Reduction, Both): Cost

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

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Technology Needs

Site Need Code: ID-S.2.05

Site Need Name: Understanding the Physics and Chemistry of Concrete Decontamination

Focus Area Work Package ID: DD-02

Focus Area Work Package: Fuel Storage Pool and Associated Facilities D&D

Focus Area: DDFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both):

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

Related CCP Milestones

Related Waste Streams

Agree?

Change?

02426: -

Y

N

00780: A3 - LLW-Liquid

Y

N

00776: A2 - HAZ-Soil

Y

N

00784: A4 - LLW-Soil/Rubble/Debris

Y

N

Site Need Code: ID-S.2.06

Site Need Name: Understanding the Physics and Chemistry of Metal Decontamination

Focus Area Work Package ID: DD-02

Focus Area Work Package: Fuel Storage Pool and Associated Facilities D&D

Focus Area: DDFA

Agree with Technology Link: N

Benefits (Cost, Risk Reduction, Both): Cost

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

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Technology Deployments

		Deployment Year	
Deployment Status		Planned	Forecast
<u>Actual Date</u>			
Technology Name:	Personal Ice Cooling System (PICS)		
Deployment Commitment		2000	2000
Technology Name:	Remote Control Concrete Demolition System		
Deployment Commitment		2000	2000
Technology Name:	Track Mounted Shear/Crusher		
Deployment Commitment		2000	2000
Technology Name:	Hand Held Shear		
Deployment Commitment		2000	2000
Technology Name:	Lead Paint Analyzer		
Deployment Commitment		2000	2000
Technology Name:	D&D and Remediation Optimal Planning System (DDROPS)		
Deployment Commitment		2000	2000

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